BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for the work of: Improvements to road, drain and footpath in main and cross roads of CQAL layout in ward no. 08 Kodigehalli.

Est Cost Rs. 5000000.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	Removing and refixing stone slabs of drains and pointing in CM (1:3) **Page No. 25 / Item No. 5.33, PWD SR 2016-17**	Cum							
	CQAL Layout		2	60.00		0.90	108.00		
	16th Cross		2	60.00		0.90	108.00		
	17th cross		2	60.00		0.90	108.00		
	18th cross		2	150.00		0.75	225.00		
	Bhadrappa Layout (Handi gud road)		1	180.00		0.90	162.00		
	Bhadrappa Layout 4th cross						**711.00**	80.56	**57278.00**
	Basic Rate	76.00							
	Area Weightage @ 6%	4.56							
	Total	**80.56**							
2	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 Page No. 142 / Item No. 19.10, PWD SR 2016-17	Cum							
	Desilting at CQAL Layout								
	16th coss		2	60.00	(0.60+0.45)/2	0.45	28.35		
	4th main		2	150.00	0.60	0.45	28.35		
	17th cross		2	60.00	0.60	0.45	28.35		
	18th cross		2	60.00	0.60	0.45	28.35		
	beside park		1	120.00	0.60	0.45	32.40		
	CQAL Main Road		2	250.00	0.60	0.45	135.00		
	RCC drain at Kodigehalli Hanumaiah layout main road		2	135.00	0.90	0.90	218.70		
	Culvert		1	21.00	0.75	1.10	17.33		
	RCC drain at Bhadrappa layout 9th 'B' Cross		1	4.40	2.00	1.10	9.68		
	Desilting Handi Gud road		1	115.00	0.90	0.90	93.15		
	Bhadrappa Layout 4th cross		2	150.00	0.60	0.45	81.00		
	Over burden earth		1	180.00	0.60	0.45	48.60		
			18	6.50	1.20	0.60	84.24		
							833.50	86.92	**72447.00**
	Basic Rate	82.00							
	Area Weightage @ 6%	4.92							
	Total	**86.92**							

3	KSRRB M200-15.1. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement ete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. iii) Dismantling Stone Masonry. A. Rubble Stone masonry in lime mortar. MORTH Specification No. 202 Page No. 137 / Item No. 18.26, PWD SR 2016-17	cum							
	RCC culvert at Kodigehalli Hanumaiah layout main road		1	4.40	2.00	0.20	1.76	
			2	4.40	0.45	0.60	2.38	
							4.14	217.30	**899.00**
	Basic Rate	205.00						
	Area Weightage @ 6%	12.30						
	Total	**217.30**						
4	KSRB 4-1.2 : Providing and laying in position **plain cement concrete of mix 1:3:6** with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, **in foundation** including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No. 12/I.No. 4.2 of CSR 2016-17)	Cum							
	CQAL Layout Main Road For flagging course		1	250.00	0.20	0.15	7.50	
	16th coss		2	60.00	0.20	0.15	3.60	
	For flagging course		2	60.00	0.30	0.15	5.40	
	Rcc drain Hanumaiah Layout		2	135.00	0.90	0.15	36.45	
	culvert		1	4.40	2.00	0.15	1.32	
	Rcc drain Bhadrappa Layout		1	115.00	0.90	0.15	15.53	
	Drain Bed correction		1	150.00	0.60	0.20	18.00	
							87.80	5348.76	**469594.00**
	Basic Rate	5046.00						
	Area Weightage @ 6%	302.76						
	Total	**5348.76**						
5	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x200x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No.	Sqm							

CAQL Layout 16th Cross			2	60.00		0.40	48.00	
CAQL Layout Main Road			2	250.00		0.40	200.00	
Bhadrappa Layout drain (missing)			1	100.00		0.40	40.00	
							288.00	993.22	**286047.00**
	Basic Rate	937.00						
	Area Weightage @ 6%	56.22						
	Total	**993.22**						

6 KSRB 5-11 : Providing and constructing non load bearing wall with solid concrete blocks of size 400x100x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4 Page No. 25 / Item No. 5.28, PWD SR 2016-17

Sqm

16th Cross			2	60.00		0.40	48.00	
							48.00	758.96	**36430.00**
	Basic Rate	716.00						
	Area Weightage @ 6%	42.96						
	Total	**758.96**						

7 KSRB 4.2.7 : Providing and laying in position **reinforced cement concrete of design mix M25** with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregtes @ 0.47cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works **in ground floor level for roof slabs, staircase, lintles and beams retaining walls, return walls, walls (any thickness) including attached pilasters, columns, ,pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc.,** including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. Specification No. KBS 4.1, 4.6 Page No. 13 / Item No. 4.12 PWD SR 2016-17

Cum

CQAL Layout									
16th Cross			2	60.00	0.20	0.075	1.80		
Main Road			2	250.00	0.20	0.075	7.50		
RCC Drain Slope concrete			2	136.00	0.20	0.100	5.44		
			1	115.00	0.30	0.100	3.45		
			2	150.00	0.20	0.100	6.00		
Drain Bed correction			1	150.00	0.60	0.200	18.00		
							42.19	6749.02	**284741.00**
	Basic Rate	6367.00							
	Area Weightage @ 6%	382.02							
	Total	**6749.02**							

8	Providing laying palin / reinforced cement concrete for Box Drain walls of thicknes 10cm to 20 cm including cenmtering shuttering form work etc. complete as per approved drawiong and design MOH Specification No. 1500,1700,2200 PCC M 20 Grade upto 0.75 m height using concrete mixture Page No. 265 / Item No. 37.59.2, PWD SR 2016-17	cum							
	A) RCC drain Hanumaiah Layout		2	135.00	0.90	0.150	36.45		
			4	135.00	0.15	0.600	48.60		
			1	21.00	0.90	0.150	2.84		
			2	21.00	0.15	0.600	3.78		
	B) RCC drain Bhadrappa Layout		1	115.00	0.90	0.150	15.53		
			2	115.00	0.15	0.600	20.70		
							127.89		
	C) Culvert								
			1	4.40	1.80	0.200	1.58		
							1.58		
							129.47	11032.48	**1428419.00**
	Basic Rate	10408.00							
	Area Weightage @ 6%	624.48							
	Total	**11032.48**							
9	KSRB 4.9.2 : Providing **T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **- TMT bars Fe 500 Page No. 17 / Item No. 4.46.20, PWD SR 2016-17**	Tonne							
	Qty same as Item No. 8			129.47	0.06		7.77		
							7.77	59413.00	**461546.00**
	Basic Rate	56050.00							
	Area Weightage @ 6%	3363.00							
	Total	**59413.00**							
10	Providing granite slabs of selected quality roughly dressed havinf a size of 10 cms thick and fixed in cement mortar (1:6) including fixing curing ete., complete. Page No. 25 / Item No. 5.31.2, PWD SR 2016-17	Cum							
	16th Cross		2	60.00	0.90		108.00		
	Basic Rate	779.00					**108.00**	825.74	**89180.00**
	Area Weightage @ 6%	46.74							
	Total	**825.74**							

11 KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications. (only chamfered length shall be recorded) KBS 5.1.13 Page No. 24 / Item No. 5.22, PWD SR 2016-17 — RMtr

16th Cross		100	3.00		300.00		
					300.00		
					300.00	37.10	**11130.00**
Basic Rate	35.00						
Area Weightage @ 6%	2.10						
Total	**37.10**						

12 Providing and fixing pre cast solid concrete kerb stones of size 450x200x400 mm made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting ete., complete. Page No. 25 / Item No. 5.29, PWD SR 2016-17 — Nos

CQAL Layout Main road		550			550.00		
					550	385.84	**212212.00**
Basic Rate	364.00						
Area Weightage @ 6%	21.84						
Total	**385.84**						

13 KSRB 15-19.1 : Providing and applying ready mix priming coat over concrete / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after thoroughly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 122 / Item No. 15.80, PWD SR 2016-17 — Sqm

		1	250.00	0.40	100.00		
		2	136.00	0.40	108.80		
		1	115.00	0.40	46.00		
					254.80	27.56	**7022.00**
Basic Rate	26.00						
Area Weightage @ 6%	1.56						
Total	**27.56**						

14 KSRB 15-19.2 : Providing and applying spray painting in two coats (excluding priming coat) over concrete / masonry / asbestos cement sheet / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. Page No. 122 / Item No. 15.81, PWD SR 2016-17 — Sqm

		1	250.00	0.40	100.00		
		2	136.00	0.40	108.80		
		1	115.00	0.40	46.00		
					254.80	69.96	**17826.00**
Basic Rate	66.00						
Area Weightage @ 6%	3.96						
Total	**69.96**						

15 Precast slab 20mm and down size for slab (including steel reinforcement) including centring and shutterng machine mixed concrete laid in layers not exceeding 15cms thick well compacted cost of all materials labour HOM of machineries curing complete as per specifications c.c 1:1.5:3 Including all cost of Matirial (DATA RATE ENCLOSED) 10cm thick RCC pre cast slab — Sqm

CQAL Main Road	418	0.60	0.90		225.72		
Hanumaiah Layout	452	0.60	0.90		244.08		
Bhadrappa Layout	192	0.60	0.90		103.68		
missing slabs	50	0.60	0.90		27.00		
					600.48	1698.00	**1019615.00**

Data Rate **1698.00**

16 KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications. (25 kg per sq mtr) Page No. 15 / Item No. 19.97, PWD SR 2016-17 — quintal

CQAL layout sholder drains16th to 19th Cross	24	0.45	0.45	25.00	**121.50**		
					1.22	385.84	**469.00**

Basic Rate	364.00
Area Weightage @ 6%	21.84
Total	**385.84**

17 A) KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregates /Sand/ Kanker / Moorum. KSRRB M100-1 : Placing tipper at loading point, loading with front end loader,dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications. MORTH -100/ Chapter 1 (Page No. 132 / Item No. 17.1) — **cum**
Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 10.00 Km etc complete as per specifications and directions of engineer in charge of the work Page No. 134 & 140 / Item No. 17.10, PWD SR 2016-17

			Qty Item No. 02		833.50		
					833.50	106.00	**88350.00**

2.5x1.28x10	32.00
Basic Rate	68.00
	100.00
Area Weightage @ 6%	6.00
Total	**106.00**

Sub Total	**4543205.00**
Add KRIDL charges 8%+Labour Cess 1%+1% QC Charges	**454320.50**

18	Miscellaneous and unforeseen charges	805.80 281.10
	Total Rs:-	5000000.00

(Rupees Fifty lakhs only)

CERTIFICATES

1 The work will be Executed within BBMP limit only

2 The work spot is inspected by me

3 The items Provided in the Estimate are quite Essential

4 The Estimate is prepared Based on CSR 2016-2017

Asst.Engineer
Waard No-8

Asst. Executive Engineer
Kodigehalli Subdivision
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore

Technical Sanction
Accorded For ..... 50.00 lakh Rs
Head of A/C..... P-3111
CER NO :.....03..... **Dt:**..06-04-17

TA — CE (YNK)

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees fifty lakhs only
Under P-3111
... conditions contained in
enclosed memo SE( ) No. ... Dt. ...
Dt. ... Estimate Sanctioned
Yc(4)pa/AS/03/2017-18
dated 6-4-2017 ... 50.00 lakhs

Commissioner
(... Zone)
BBMP, Bengaluru-92